

Fig. 1

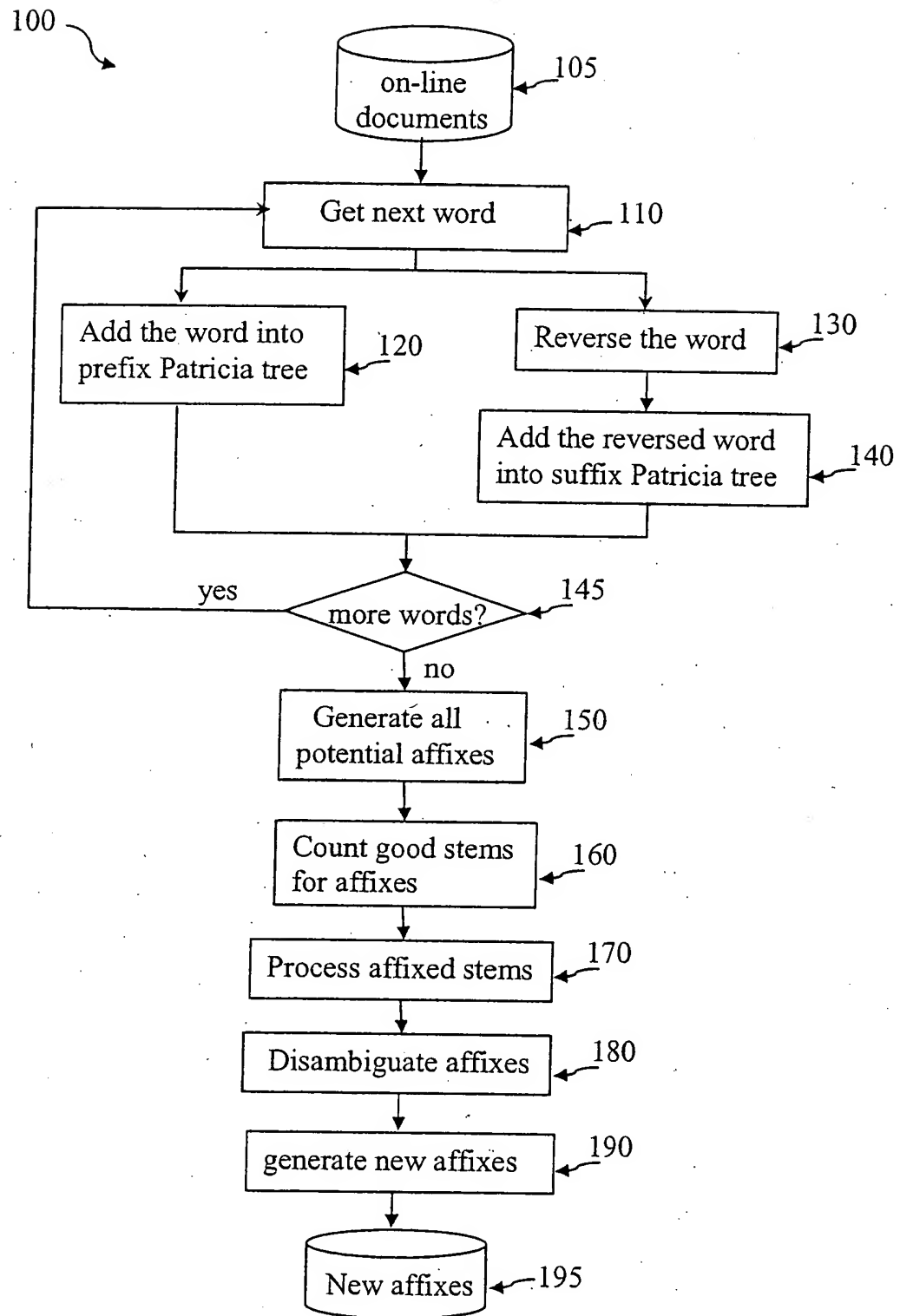


Fig. 2

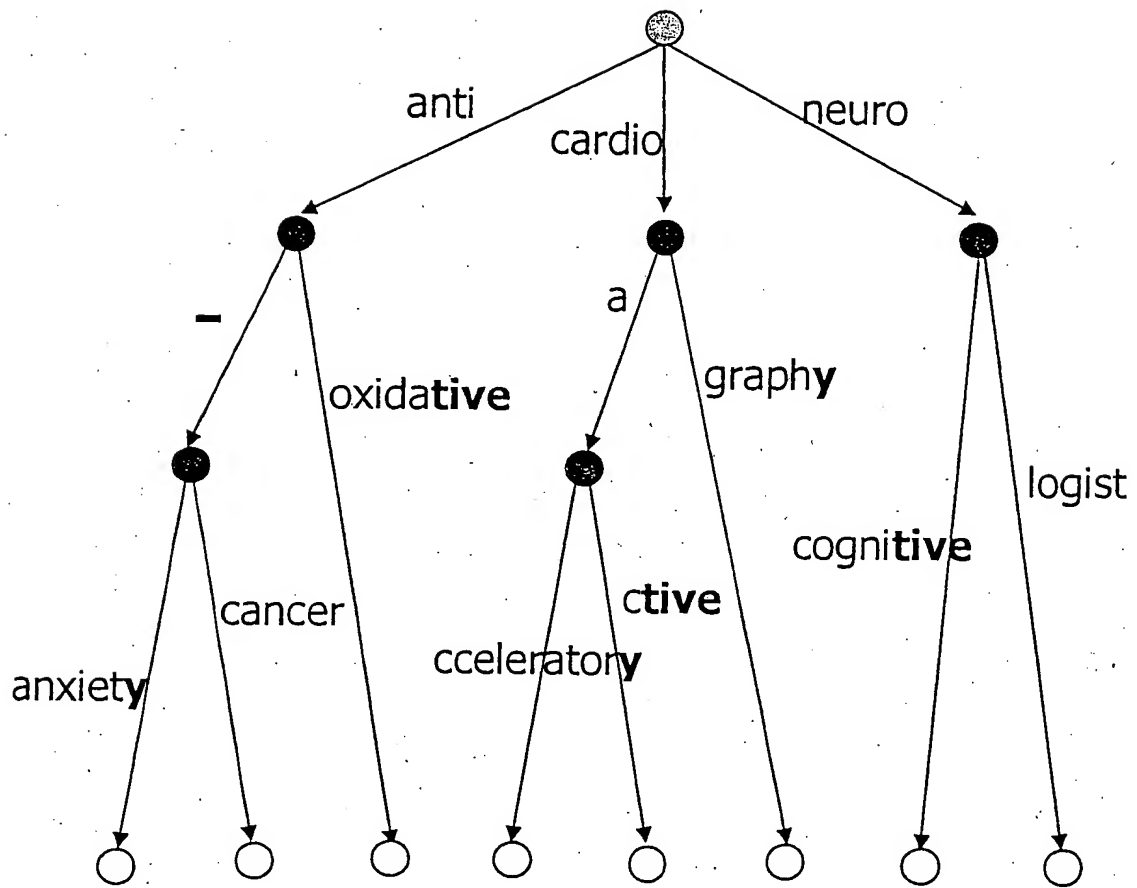


Fig. 3. . An example prefix Patricia tree for words {anti-anxiety, anti-cancer, antioxidative, cardioacceleratory, cardioactive, cardiography, neurocognitive, neurologist}. All the strings for the internal nodes are potential prefixes.

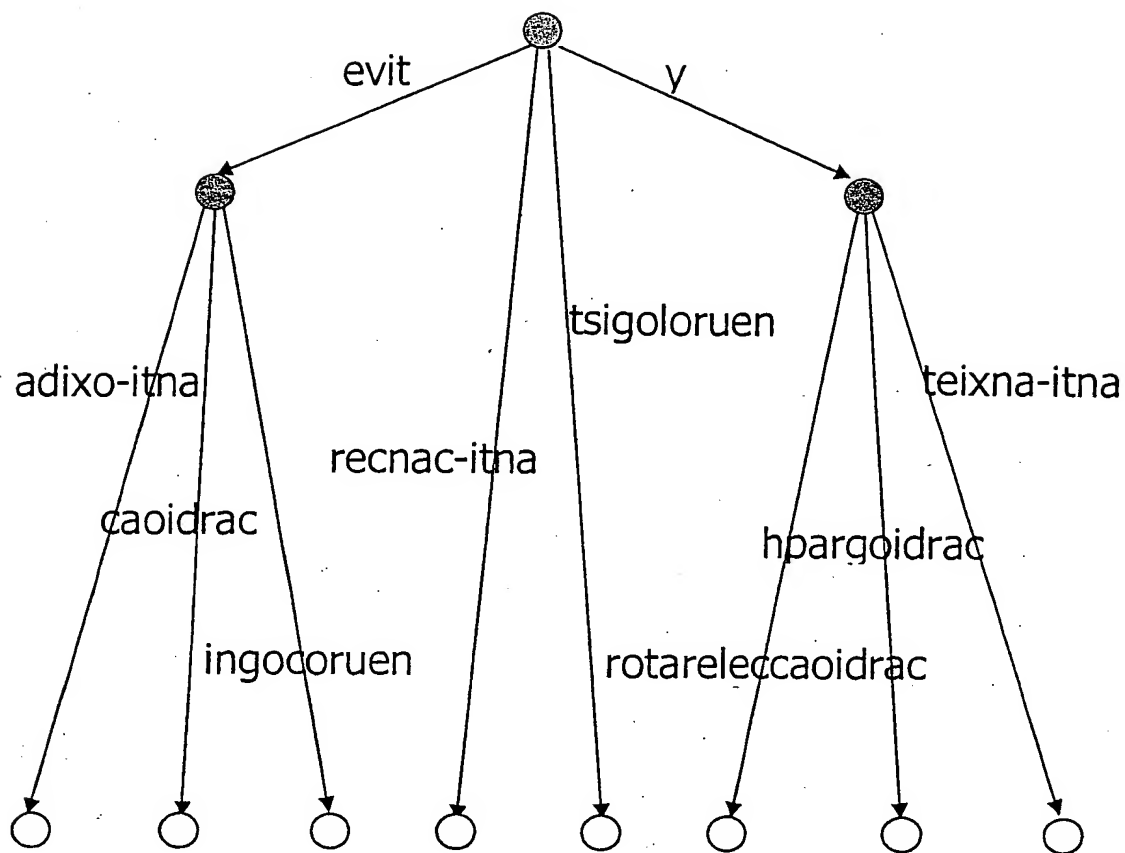


Fig. 4. An example suffix Patricia tree for words {anti-anxiety, anti-cancer, antioxidative, cardioacceleratory, cardioactive, cardiography, neurocognitive, neurologist}. This is a prefix Patricia tree for the reversed words. All the strings for the internal nodes are potential suffixes.

- Prefixes from MEDLINE

non	re	pre	anti	un	de	sub	intra	self	dis	
inter	con	neuro	hyper	multi	micro	trans	cardio	im	hypo	
bio	vaso	radio	para	mono	electro	psycho	counter	broncho	immuno	
semi	peri	beta2	auto	poly	dys	endo	pharmaco	ultra	sup	
mg	on	sympatho	angio	pseudo	gh	hemo	myo	alpha1	alpha2	
nitro	veno	mis	supra	equi	normo	betal	chemo	histo	photo	thrombo
arterio	uro	glyco	hydroxy	rein	clinico	5-ht	tachy	super	chrono	fore
adreno										

- Suffixes from MEDLINE

s	ed	ing	es	ly	al	ic	ion	ally	ies
ity	er	ive	ation	ions	ment	ness	ized	ical	ically
ization	rs	ers	ations	ors	ial	ant	ied	ance	ings
ised	ory	ous	ase	ments	ular	ities	en	ively	est
ional	ary	ative	ily	izing	ication	ivity	emia	ably	isation
ism	ute	ists	ified	ist	graphy	ence	emic	ize	ics
Ful	ogic	ogenic	itis	ates	ute	iness	aemia	ian	logy

Fig. 5. Example output of the system